

Application 09/963,736

Page 2 of 5

AMENDMENT TO THE CLAIMS

*Please amend the claims as follows without prejudice or disclaimer of the subject matter being cancelled:*

CLAIMS:

1. (Original) A method for treating obstructive sleep disorders, the method comprising:  
accessing the interior of the tongue through an incision made in the skin in the vicinity of the jaw of a patient;  
advancing an instrument through the incision into the interior of the tongue; and  
removing an amount of tissue from the interior of the base of the tongue with the instrument.
2. (Original) The method of claim 1, wherein the incision is made under the jaw between the mandible and the hyoid bone.
3. (Original) The method of claim 1, wherein the accessing the interior of the tongue comprises creating a channel in the tissue between the incision and the interior of the tongue.
4. (Original) The method of claim 3, wherein the channel passes through the mylohyoid and the geniohyoid muscles into the genioglossus muscle.
5. (Original) The method of claim 1, wherein the instrument is an electrosurgical instrument.
6. (Original) The method of claim 5, wherein the electrosurgical instrument has a curved distal end.
7. (Original) The method of claim 1, wherein the removing of tissue comprises:

Application 09/963,736

Page 3 of 5

applying a high frequency voltage difference between one or more active electrodes and one or more return electrodes; and

providing an electrically conductive medium over at least a portion of the one or more active electrodes and the tissue to be removed.

8. (Original) The method of claim 7, further comprising coagulating tissue in a region adjacent to the location where tissue is removed.

9. (Original) The method of claim 1, wherein the removing of tissue is performed without breaching the mucosal surface of the tongue.

10. (Original) The method of claim 8, wherein the applying thermal energy is performed subsequently to the applying a high frequency voltage.

11. (Original) The method of claim 1, wherein the removing of tissue comprises forming a cavity within the interior of the base of the tongue.

12. (Original) The method of claim 7, further comprising collapsing the cavity.

13. (Original) The method of claim 12, further comprising suturing the cavity.

14. (Original) The method of claim 12, further comprising stapling the cavity.

15. (Original) The method of claim 12, further comprising gluing the cavity.

16. (Original) The method of claim 1, wherein the removing of tissue decreases the volume of the tongue by about 5% to about 15%.

17. (Original) The method of claim 1, wherein the instrument removes tissue through a mechanical process.

Application 09/963,736

Page 4 of 5

18. (Currently Amended) The method of claim 17 [[claim 19]], wherein the instrument is a rotary shaver.

19. (Cancelled)

20. (Currently amended) A method for treating obstructive sleep disorders, the method comprising:

forming a cavity within the interior of the tongue without breaching the mucosal surface of the tongue; and

~~The method of 19, further comprising accessing the interior of the tongue without accessing an opening of the mouth in order to form the cavity.~~

21. (Currently amended) A method for treating obstructive sleep disorders, the method comprising:

forming a cavity within the interior of the tongue without breaching the mucosal surface of the tongue; and

~~The method of claim 19, further comprising permanently collapsing the cavity.~~

22. (Original) A method for accessing the interior of the tongue, the method comprising:

making an incision under the jaw of a patient; and

channeling through tissue to within the interior of the tongue.

23. (Original) The method of claim 22, wherein the tissue channeled comprises the mylohyoid muscle, the geniohyoid muscle and the genioglossus muscle.

24.-34 (Cancelled)